| | | SUMMARY OF QUANTITIES | | | SIDEWALK CONSTRUCTION CODE OO21 | SIGNALS CONSTRUCTION CODE GOZI |
|---|---|--|--------|-------------------|--|---|
| | CODE NO. | ITEM DESCRIPTION | UNIT | TOTAL | SUBTOTAL | SUBTOTAL |
| | | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | UNIT | 65.00 | 65.00 | 0.00 |
| | 20100110 | THEE REMOVAL (0.10.10 ONLY DIVINE LETY) | Civil | 00.00 | 00.00 | 0.00 |
| | | | _ | | | |
| | 20100210 | TREE REMOVAL (OVER 15 UNITS DIAMETER) | UNIT | 18.00 | 18.00 | 0.00 |
| | | | | | | |
| | 20101100 | TREE TRUNK PROTECTION | EACH | 57.00 | 57.00 | 0.00 |
| | 20101100 | TREE TRONG PROTECTION | L/1011 | 07.00 | 07.00 | 0.00 |
| | | | | | - | |
| * | 20101200 | TREE ROOT PRUNING | EACH | 25.00 | 25.00 | 0.00 |
| | | | | | | |
| | | 20200100 EARTH EXCAVATION | | 4466.00 | 4400.00 | 0.00 |
| | 20200100 | EARTH EXCAVATION | CU YD | 1166.00 | 1166.00 | 0.00 |
| | | | | | | |
| | 21101625 | TOPSOIL FURNISH AND PLACE, 6" | SQ YD | 5005.00 | 5005.00 | 0.00 |
| | 21110110110 | | | | | |
| | | | 200000 | 0.0000 | | 2000 |
| × | 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 66.00 | 66.00 | 0.00 |
| | | | | | | |
| * | 25000500 | PHOSPHOPI IS EEPTII IZER MITRIENT | POUND | 51.00 | 51.00 | 0.00 |
| × | 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | FOUND | 31.00 | 31.00 | 0.00 |
| | | | | | | |
| × | 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 66.00 | 66.00 | 0.00 |
| | | | | | | |
| , | | | 20.11 | | | (0.00 |
| * | 25200110 | SODDING, SALT TOLERANT | SQ YD | 5005.00 | 5005.00 | 0.00 |
| | | | | | | |
| | 28000400 | PERIMETER EROSION BARRIER | FOOT | 6888.00 | 6888.00 | 0.00 |
| | 20000400 | TERMETER EROSION DANNER | | 133333 | | |
| | | | | | | |
| | 28000500 INLET AND PIPE PROTECTION | | EACH | 13.00 | 13.00 | 0.00 |
| | | | | | | |
| | 28100107 STONE RIPRAP, CLASS A4 | | COVD | 4.00 | 4.00 | 0.00 |
| | 28100107 STONE RIPRAP, CLASS A4 | | SQ YD | 4.00 | 4.00 | 0.00 |
| | | | | | | |
| | 35101600 | AGGREGATE BASE COURSE, TYPE B 4" | SQ YD | 4656.00 | 4656.00 | 0.00 |
| | | | | | | |
| | | | Mary | Constant Constant | | |
| | 42300400 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH | | SQ YD | 62.00 | 62.00 | 0.00 |
| | | | | | | |
| | 40400000 | PODTI AND CEMENT CONCRETE SIDEMALY & INCH | SQ FT | 41876.00 | 41876.00 | 0.00 |
| | 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | 0011 | 41070.00 | 41070.00 | 0.00 |
| | | | | | | |
| | 42400800 | DETECTABLE WARNINGS | SQ FT | 656.00 | 656.00 | 0.00 |
| | | | | | | |
| | | | 00.40 | 00.00 | 60.00 | 0.00 |
| | 44000200 | DRIVEWAY PAVEMENT REMOVAL | SQ YD | 62.00 | 62.00 | 0.00 |
| | | | | | | |
| | 44000500 | COMBINATION CURB AND GUTTER REMOVAL | FOOT | 759.00 | 759.00 | 0.00 |
| | | | | | | |
| | An appearance of | | 00 | | | |
| | 44000600 | SIDEWALK REMOVAL | SQ FT | 486.00 | 486.00 | 0.00 |
| | | | V/ | D. C. Dr. 400 | | |
| | 44003100 | MEDIAN REMOVAL | SQ FT | 69.00 | 69.00 | 0.00 |
| | 44000100 | THE WALL STREET AND STREET | | 35.30 | | 7/77 |
| | | | | | - | |
| | 54213663 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18" | EACH | 4.00 | 4.00 | 0.00 |
| | | | | | | |
| | EE01000 | STORM SEMEDS OF ASS A TYPE 1 10 st | FOOT | 266.00 | 202.00 | 0.00 |
| | 550A0090 | STORM SEWERS, CLASS A, TYPE 1 18" | FOOT | 266.00 | 266.00 | 0.00 |
| | | | | | | |
| | 60200805 | CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE | EACH | 1.00 | 1.00 | 0.00 |
| | | | | | | |
| | | | 2000 | Villey and 1 | | 7000 |
| | 60255500 | MANHOLES TO BE ADJUSTED | EACH | 4.00 | 4.00 | 0.00 |
| | | | | | | |
| | 60602900 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 | FOOT | 169.00 | 169.00 | 0.00 |
| | 00003000 | Commence of the contract of th | | .00.00 | .00.00 | 0.00 |
| | | | | | | |
| | . DENOTE | S SPECIALTY ITEMS | | | | |

| | SUMMARY OF QUANTITIES | | | SIDEWALK CONSTRUCTION CODE OOZI | SIGNALS CONSTRUCTION CODE CO21 |
|----------|---|-------|-----------------------|--|---|
| CODE NO. | ITEM DESCRIPTION | UNIT | TOTAL | SUBTOTAL | SUBTOTAL |
| 60605000 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 | FOOT | 590.00 | 590.00 | 0.00 |
| 60618300 | CONCRETE MEDIAN SURFACE, 4 INCH | SQ FT | 69.00 | 69.00 | 0.00 |
| 63200310 | GUARDRAIL REMOVAL | FOOT | 49.00 | 49.00 | 0.00 |
| 63000001 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS | FOOT | 8.00 | 8.00 | 0.00 |
| 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT) | EACH | 1.00 | 1.00 | 0.00 |
| 66400305 | CHAIN LINK FENCE, 6' | FOOT | 156.00 | 156.00 | 0.00 |
| 67100100 | MOBILIZATION | L SUM | 1.00 | 1.00 | 0.00 |
| 70102632 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701602 | L SUM | 1.00 | 1.00 | 0.00 |
| 70102635 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 | L SUM | 1.00 | 1.00 | 0.00 |
| 70102640 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701801 | L SUM | 1.00 | 1.00 | 0.00 |
| 78000400 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" | FOOT | 2654.00 | 2654.00 | 0.00 |
| 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" | FOOT | 439.00 | 439.00 | 0.00 |
| 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 527.00 | 527.00 | 0.00 |
| 78300100 | PAVEMENT MARKING REMOVAL | SQ FT | 1384.00 | 1384.00 | 0.00 |
| 81028210 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 ½" DIAMETER | FOOT | 118.00 | 0.00 | 118.00 |
| 85000200 | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | d 6.00 | 0.00 | 6.00 |
| 87301215 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 5450.00 | 0.00 | 5450.00 |
| 87301225 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 5633.00 | 0.00 | 5633.00 |
| 87301900 | ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 4.00 4.00 16.00 | 0.00 | 182.00 |
| 87502640 | TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT. | EACH | | 0.00 | 4.00 |
| 87800100 | CONCRETE FOUNDATION, TYPE A | FOOT | | 0.00 | 16.00 |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | | 0.00 | 4.00 |
| 88102717 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 30.00 | 0.00 | 30.00 |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 30.00 | 0.00 | 30.00 |
| 89100400 | ILLUMINATED SIGN, LED | EACH | 24.00 | 0.00 | 24.00 |
| 89502200 | MODIFY EXISTING CONTROLLER | EACH | 6.00 | 0.00 | 6.00 |

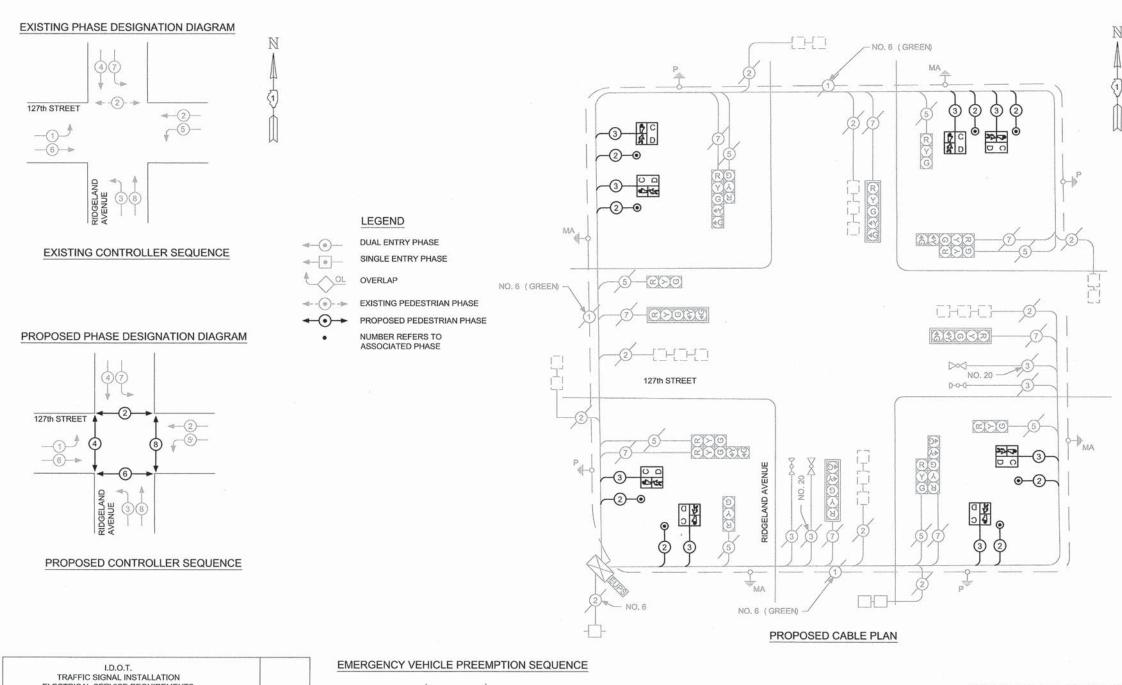
 USER NAME *
 DESIGNED - AS
 REVISED - 6/5/2015

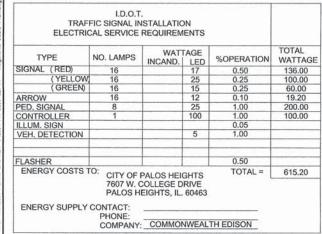
 DRAWN - DJB
 REVISED

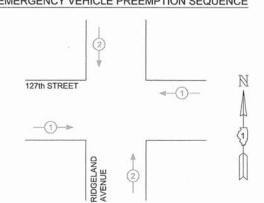
 PLOT SCALE *
 CHECKED - AS
 REVISED

 PLOT DATE * May 07, 2015
 DATE REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION







SCHEDULE OF QUANTITIES

| EACH | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION |
|--|--|
| FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C |
| FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C |
| EACH | PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME! |
| EACH | PEDESTRIAN PUSH-BUTTON |
| EACH | MODIFY EXISTING CONTROLLER |
| EACH | MODIFY EXISTING CONTROLLER CABINET |
| EACH | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT |
| The state of the s | FOOT EACH EACH EACH EACH |

| USER NAME = | DESIGNED - AS | REVISED - 16/5/2015 |
|--------------------------|---------------|---------------------|
| | DRAWN - DJB | REVISED - |
| PLOT SCALE = | CHECKED - AS | REVISED - |
| PLOT DATE = Moy 07, 2015 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

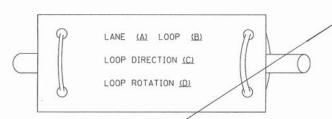
| SCHEDULE O | F QUANTITIES, CABLE PL | F.A.P. SECTION | | COUNTY | TOTAL | SHEET NO. | |
|------------|---------------------------|----------------|-----------------|----------------|----------|--------------|------|
| | 127th STREET & RIDGE | | 348 | 14-00051-00-SW | COOK | 64 | 30 |
| | | LITOL | | | CONTRACT | NO. 6 | 1B59 |
| SCALE: N/A | SHEET NO. 30 OF 64 SHEETS | | ILLINOIS FED. A | ID PROJECT | | | |

ENAME: H-14-PH-3009/PLANS-ENGNREV-0\2014-PH-3009-127

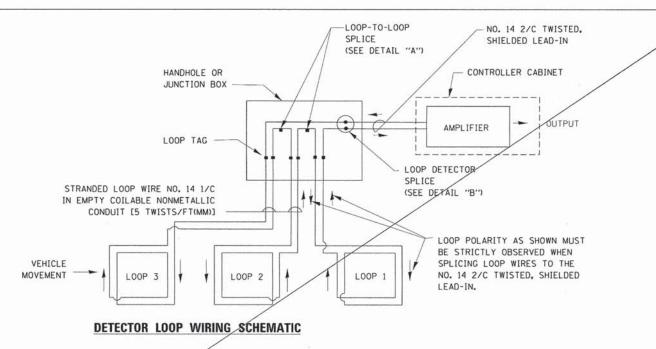
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF FURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WELL CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

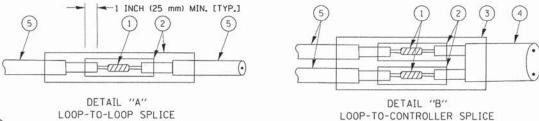
LOOP LEAD-IN CABLE TAG



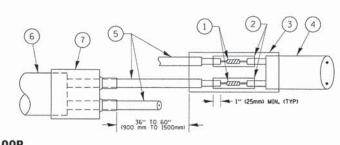
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



- . LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
 THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



TYPE | LOOP



DETAIL "A"

LOOP-TO-LOOP SPLICE

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

SCALE: NONE

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(2)

(1)

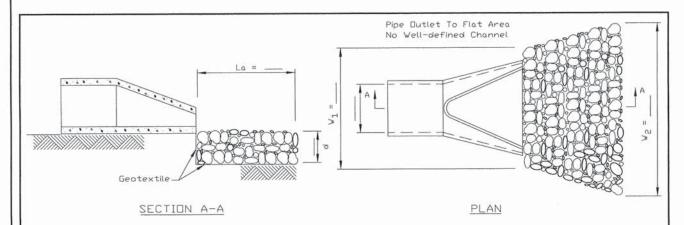
DETAIL "B"

LOOP-TO-CONTROLLER SPLICE

- (6) PRE-FORMED LOOP
- 7 ST POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



NOTES

- 1. The filter fabric shall meet the requirements in material specifications 592 GEDTEXTILE Table 1 or 2, class I, II or III.
- 2. The rock riprap shall shall meet the IDOT requirements for the following gradation: RR ______, Quality _
- 3. The riprap shall be placed according to construction specification 61 LOOSE ROCK RIPRAP. The rock may be equipment placed.

| REFERENCE | |
|-----------|------|
| Project | |
| Designed | Date |
| Checked | Date |
| Approved | Date |



IL-610 SHEET 1 DF 1

PIPE OUTLET TO FLAT AREA

Table 1 Rock Riprap Sizes and Thickness (Inches)

| IDOT Grad, No. | d50 | dmax | Min. Blanket Thickness |
|----------------|-----|------|------------------------|
| RR-3 1/ | 5 | 10 | 15 |
| RR-4 | 9 | 14 | 20 |
| RR-5 | 12 | 19 | 28 |
| RR-6 | 15 | 22 | 32 |
| RR-7 | 18 | 27 | 32 |

1/ Concrete block may be used to replace RR-3

Table 2

Minimum IDOT Rock Sizes and Apron Length (La in feet) for Maximum and Minimum Tailwater Conditions

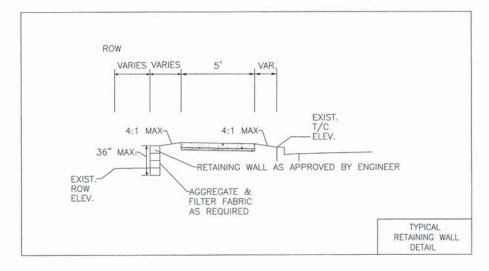
| | Min. | Taily | ater | | Max Tailw | | | |
|------------------|--------------|--------|--------------|----------|--------------|-----------|--------------|----|
| Culvert | 5 fps | 10 fps | 1/ | 5 fps 1/ | | 10 fps 1/ | | |
| Size (Inches) | Rock Size | La | Rock Size | La | Rock Size | La | Rock Size | La |
| 12 | RR-3 | 10 | RR-3 | 12 | RR-3 | 12 | RR-3 | 15 |
| 18 | RR-3 | 14 | RR-4 | 16 | RR-3 | 12 | RR-3 | 16 |
| 24 | RR-3 | 16 | RR-4 | 20 | RR-3 | 14 | RR-4 | 17 |
| 30 | RR-3 | 18 | RR-4 | 22 | RR-3 | 16 | RR-4 | 20 |
| 36 | RR-4 | 20 | RR-5 | 24 | RR-3 | 16 | RR-4 | 22 |
| 48 | RR-4 | 24 | RR-6 | 28 | RR-4 | 20 | RR-4 | 24 |
| 60 | RR-5 | 32 | RR-6 | 36 | RR-4 | 22 | RR-5 | 26 |
| 72 | RR-6 | 40 | RR-6 | 44 | RR-5 | 24 | RR-5 | 29 |
| 96 | RR-7 | 50 | RR-7 | 54 | RR-5 | 26 | RR-5 | 32 |

1/ Maximum conduit velocity fps.

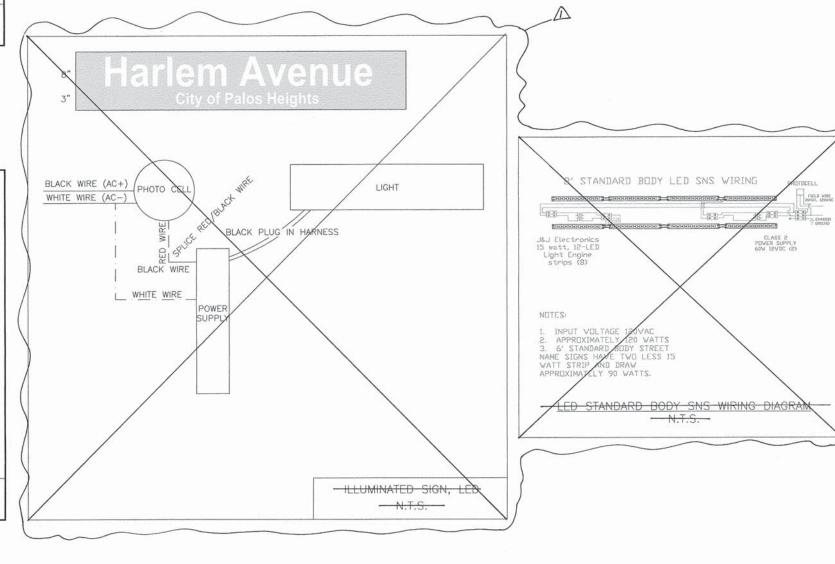
Rock Gradation source: IDOT

SCS IL April 1993

RIPRAP TABLES



SCALE: NA



USER NAME = \$USER\$ REVISED - 12015 REVISED DRAWN - DJB CHECKED - AS REVISED PLOT SCALE = NONE REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION RTA FUNDED SIDEWALK & SIGNAL IMPROVEMENTS 348 14-00051-00-SW COOK 64 44 **DETAILS** CONTRACT NO. 61B59 SHEET NO. 44 OF 64 SHEETS STA. TO STA